

# Slim Series

# AR-331-E

# Slim Design Multi-Function Controller

Elegant and slim design, suitable for installation in narrow place, metal housing enhances collision resistance



#### **Communication Redundancy**

Support TCP/IP and RS485 interface, when main communication disconnects, deputy communication will work to maintain normal work

#### **HTTP WEB Server Remote Management**

Controller is able to remotely managed at any time via browsers not restricted by computer brands or mobile phone brands

#### 2 Sets of UART Ports

Flexible integration with peripheral devices, like I/O module, floor control panel, LED display, infrared thermo-camera, etc.

#### Support SOYAL Cascade Structure

Built-in multiple control modes:

- 1. One door
- Two door (with WG reader)
- 3. Multiple doors (with multi-door control panel)

#### Slim Appearance

Suitable for installation in narrow place and limited area

#### Anti-Vandalism Metal Frame Selectable

Metal frame is able to enhance protection and reduce destruction upon collision and damage

#### **Invisible Keypad**

Keypad function is workable without numerical number. Activate keypad when doing programming of the controller and back to no keypad function once finished

#### **Features**

















 Dual communication interfaces: RS485 and Ethernet (10/100M Base T)

- Built-in watchdog, real time clock, anti-vandalism switch, ingress protection, alarm setting, holiday edit, auto open door time zone, door group, door status DI, anti-passback function and duress code & output
- Support user capacity: 16,000 / 32,000 / 65,000 users
- Support floor control: 64 / 32 / 16 floors
- In case Ethernet disconnects, controller is still able to identify UID and record event log
- Multiple access mode: card only, card or password, card and password

- Two doors control: Two sets of push button and door status, relay output for lock and WG output for reader
- Multiple DO outputs: Lock, alarm, arming, duress and digital relay
- Supported frequency: 125kHz, 13.56MHz and dual band
- Support reader mode: Not only a controller, but an encrypted RS485 reader if utilized with other brand's controller
- Standalone / Networking is switchable during working
- Support RS485 communication encryption, SSC (Soyal Security Communication)
- Seamless touch keypad has good waterproofing to prevent moisture; word on keypad doesn't disappear due to abrasion

#### **SPECIFICATION**



#### WHAT WE OFFER



Connected with Reader, it can manage 2 access control by a single unit of controller. The second set of access control also has the exit switch, door contact status and door output control, can also set different access level (such as - can access Door A but can not access Door B).

#### Real-Time Event Log Integration

After reading card, IP-based controller will actively send the event logs through port 8031 for the integration with the 3rd party program.

#### Auto-Schedule Function

AR-327-E special firmware connects with DO module AR-401RO16B, using Lift Control program enabling you to control each Digital Output and formulate a time schedule for each output, up to 64. It's suitable for each various switching devices, such as lighting, sprinkler system, air conditioning, etc

#### Extended Application of Auto Open Time

The Wiegand reader Auto-Open time zone setting is able to control the infrared activation function / output the second set of door contact functions at a specific time.

#### Auto-Alarm Function

Built-in 16 sets of alarm to output flash light, alarm clock, broadcast system, and each set of alarm can set the output time.

#### With 2 Sets of UART Port

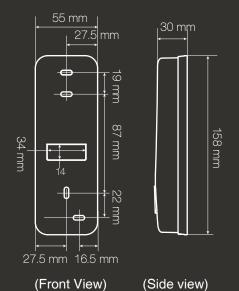
It can be applied to:

- (1) 256-point Mailbox Management System
- (2) Auto-scheduling control function-64-point DO control
- (3) Printer integration
- (4) Voice module (AR-721V-V2)

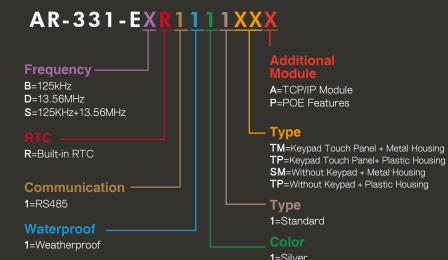
### **Reader Mode Supported**

Controller can be set to Reader mode, with Wiegand output that can be integrated with various brands of controllers, with a dual-band format that turns into Wiegand dual-band Reader.

#### INSTALLATION(mm)



#### **HOW TO ORDER**



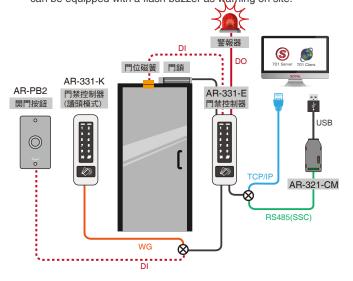


#### **APPLICATION & STRUCTURE DIAGRAM**

#### STANDALONE & NETWORKING ACCESS CONTROL

Anti Passback: restrict user to re-enter before exiting venue or increase security level by having access reader at the other side of the door. Both entering and exiting will required swipe card or keyfob for access.

AR-331-E can detect abnormal event with the door contact status in arming mode. When a forced entry or door opening too long, an alarm is generated and sent to the software, AR-331-E alarm output can be equipped with a flash buzzer as warning on site.



#### BUILT-IN HTTP WEB SERVER

IP-Based Controller has built-in HTTP WEB Server for Access Control, just input IP address, have it logged in to remotely control a single controller, enabling adding User card, time zone setting, review event logs, etc, even more can remotely open/close door regardless the brand of computer and smart phone. As long as there is a WEB browser, the remote management function can be achieved





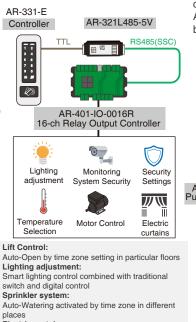
--16,000 User, 63 Timezone--

#### INTEGRATED WITH TEMPERATURE AUTO-SCHEDULING **DETECTION SYSTEM**

Access Controller integrate with Temperature detection, personnel temperature is too high when swiping the card, door will not be open, also linkage to the alarm system to remind administrator.

# Alarm DO AR-321L485-5V Door Sensor Lock RS485(SSC) AR-331-E Controller Infrared Thermo-Camera Ш

Smart Home System: AR-331-E connect with DO module for auto-control, can formulate a ime schedule for each output, up to 64. It's suitable for each various switching devices.



Electric curtains:

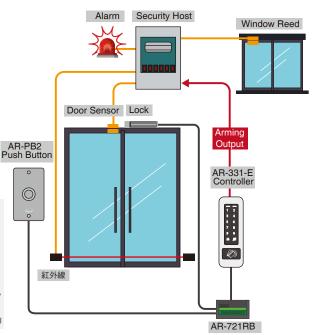
Electric equipment control such as Electric curtains, Gasshut-off valves and etc.

Temperature Selection:

Heating and cooling Air Conditioning system control

#### INTEGRATED WITH BURGLARY SYSTEM

AR-327-E metal material makes it solid and sturdy for anti-vandalism, connecting digital signal module to distribute control exit button and electric lock, that preventing from door unlocked when if controller is destroyed; when there is a burglary system indoor, that can be activated/inactivated by access controller, after inputting arming code+ swiping valid card it trigger Digital Output (Pulse/Latch), a arming LED on AR-327-E to judge the status whether in arming mode, the best choice of Access Control Solution.



#### PERIPHERALS / ACCESSORIES

#### **HIGH LEVEL SECURITY**

Anti-Cloning Kits



**Mifare Encryption** Encoder: AR-725-P Authorization Tags



**Desfire Encryption** Encoder: AR-837-P Authorization Tags Software: 323D Master

Software: Mifare Key



Expansion I/O Control

I/O Modules

AR-401 Series: Multiple Channel I/O Module Module AR-403 Series: Tiny Digital I/O Module



#### NETWORKING

Software



File Based & Data Based **Access Control, Time** Attendance, Status Monitoring and Configuration

Interchangeable Software for Upgrade Udp Updater

701ServerSQL & 701ClientSQL



Remote Lift **Control and Time Table Setting** 

Lift Control

#### Signal/Interface Converter



**POE Module** AR-MDL-RJ45-POE-12V12W

Isolated USB to RS-485 AR-321-CM Isolated RS232 to **RS-485 Converter** AR-321-CM-485232

**Ethernet to RS485** AR-727-CM

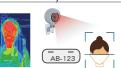
AR-727-CM-IO-0804M (with I/O for Fire Alarm to open all doors)

### Multi-Door AntiPassback



Multi-Door Control Series AR-716-E16: 16 Doors IP Control Panel AR-716-E18: 18 Doors IP Control Panel

 Extensive Applications (UDP/TCP)



Infrared Thermo-Camera. LPR (License Plate Recognition)

## STANDALONE

Input/Output



Magnetic Lock AR-0600M Electric Bolt Lock AR-1207 Series Cabinet Lock AR-1211-P/AR-1213-P Electric Strike AR-YS-130NO/AR-YS-131NO

Slim Series



Door Sensor / Push Button / **Alarm / Burglary Security System** 



Touch Keypad Proximity Reader AR-331-K

**Proximity Reader** AR-331-U

• External Relay Output (Security / Arming / Duress / WIEGAND Unlock Door/Alarm)



- 1 Form C relay with time delay AR-721RB
- 1 Form C relay AR-821RB
- 2 Forcm C relay AR-829RB

• UART Port x 2



Lift Control / I/O Module / Printer / LED display / Voice Module / Bluetooth Module / **Infrared Thermo-Camera** 

Programming
Necessary



**Keyless Editing** Self programmed master card



**Power Supply** BP-W12-1500 (1.5A) BP-W15-2400 (2.4A)



**Proximity Tags** 

125kHz: EM 13.56MHz: Mifare Classic, Mifare Plus, Mifare Desfire, UltraLight Tags Selection: Thin Card. Round Keyfob, Square Keyfob

#### FAQ

# and E Series Controller?

SOYAL access controller classified into two categories in term of A: specification; H Series and E Series.

SOYAL H Series controller has already include all basic standalone and networking access controller that you need. But E series controller provide what H Series controller has already have, and more advanced features like built in more user capacity, UART Port for extension module, and extension interface like Ethernet and POE.

#### Q: What is the difference betweeen SOYAL H Series Q: How to set the IP address offline without computer for AR-331-E?

Besides online setting IP address by computer via the built-in HTTP Web Server, offline setting by keypad is also workable, that suited on site or when IP address is unknown.

- The default IP address: 192.168.1.127
- To edit IP address: for example: 192.168.77.10

STEP 1. Entering programming mode

STEP 2. Input 01\*0\*192168077010# by keypad.





